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PATENTS
112056-0120
P01-1570

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re The Application of:
Eric Hamilton et al.

Serial No.: 10/705,493

Filed: November 10, 2003

For: SYSTEM AND METHOD FOR
MANAGING FILE DATA DURING
CONSISTENCY POINTS

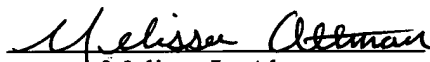
Examiner: Not yet assigned

Art Unit: 2171

Cesari and McKenna, LLP
88 Black Falcon Avenue
Boston, MA 02210
July 12, 2005

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Melissa L. Altman

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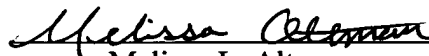
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Sir:

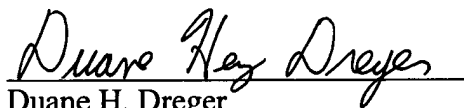
INFORMATION-DISCLOSURE STATEMENT

In keeping with the duty of candor and good faith owed to the Patent and Trade-mark Office, Applicants wish to bring to the Examiner's attention the references listed on the accompanying form PTO-1449. A copy of each listed reference is enclosed.

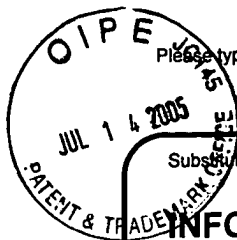
To the extent required by 37 C.F.R. §1.98(a)(3), Applicants have described what they consider to be the relevance of any foreign-language reference. The Office may find additionally relevant material in these or other references.

Please charge any additional fee occasioned by this paper to our Deposit Account No. 03-1237.

Respectfully submitted,

A handwritten signature in cursive script, reading "Duane H. Dreger", is written over a horizontal line.

Duane H. Dreger
Reg. No. 48,836
CESARI AND MCKENNA, LLP
88 Black Falcon Avenue
Boston, MA 02210-2414
(617) 951-2500



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known

Application Number	10/705,493
Filing Date	November 10, 2003
First Named Inventor	Eric Hamilton et al.
Group Art Unit	2171
Examiner Name	Not yet assigned
Attorney Docket Number	112056-0120

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1	4,570,217		Allen et al.	02-11-1986	
	2	5,163,131		Row et al.	11-10-1992	
	3	5,202,979		Hillis et al.	04-13-1993	
	4	5,278,979		Foster et al.	01-11-1994	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	5	AKYUREK, SEDAT, <i>Placing Replicated Data to Reduce Seek Delays</i> , Department of Computer Science, University of Maryland, UMIACS-TR-91-121, CS-TR-2746, August 1991.
	6	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 th VLDB Conference, LA, CA 1988.
	7	CHAUDHURI, SURAJIT, ET AL., <i>Self-Tuning Technology in Microsoft SQL Server</i> , Data Engineering Journal 22, 2 1999 pp. 20-27.
	8	CHUTANI, SAILESH, ET AL., <i>The Episode File System</i> , In Proceedings of the USENIX Winter 1992.
	9	COYNE, ROBERT A., ET AL., <i>Storage Systems for National Information Assets</i> , Proc. Supercomputing 92, Minneapolis, Nov. 1992, pp. 626-633.
	10	FINLAYSON, ROSS S., ET AL., <i>Log Files: An Extended File Service Exploiting Write-Once Storage</i> Department of Computer Science, Stanford University, Report No. STAN-CS-87-1177, September 1987.
	11	GRAY, JIM, ET AL., <i>The Recovery Manager of the System R Database Manager</i> , ACM Computing Surveys, (13)2:223-242 1981.
	12	HECHT, MATTHEW S., ET AL. <i>Shadowed Management of Free Disk Pages with a Linked List</i> , ACM Transactions on Database Systems, 8/4, December 1983, pp. 503-514.
	13	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, August 1987.

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	14	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062 1988.	
	15	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , ACM Trans. Computer System, 6(1), Feb. 1988 pp. 51-81.	
	16	KAZAR, MICHAEL LEON, <i>Synchronization and Caching Issues in the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-063.	
	17	KAZAR, MICHAEL L., ET AL., <i>DEcorum File System Architectural Overview</i> , USENIX Summer Conference, Anaheim, California, 1990.	
	18	KEMPER, ALFONS, ET AL., <i>Performance Tuning for SAP R/3</i> , Data Engineering Journal 22, 2 1999 pp. 33-40.	
	19	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , IEEE Transactions on Software Engineering, 14(2): 155-168, February 1988.	
	20	KISTLER, ET AL., <i>Disconnected Operation in the Coda File System</i> , ACM Transactions on Computer Systems, Vol. 10, No. 1, February 1992, pp 3-25.	
	21	LORIE, RAYMOND, A. <i>Physical Integrity in a Large Segmented Database</i> , ACM Trans. Database Syst., vol. 2, March 1977, pp. 91-104.	
	22	OUSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988.	
	23	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley 1987.	
	24	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 Sept. 1988.	
	25	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master's Thesis for the Department of Science in Computer Science, September 2002.	

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	26	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 1991.	
	27	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engineering And Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990.	
	28	ROSENBLUM, MENDEL, ET AL. <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.	
	29	ROSENBLUM, MENDEL, <i>The Design and Implementation of a Log-Structured File System</i> , 1992 pp. 1-93.	
	30	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> , In Proceedings of ACM Transactions on Computer Systems, (10)1:26-52, February 1992.	
	31	SCHIEFER, BERNI, ET AL., <i>DB2 Universal Database Performance Tuning</i> , Data Engineering Journal 22, 2 1999 pp. 12-19.	
	32	SELTZER, MARGO I., ET AL., <i>Journaling Versus Soft Updates: Asynchronous Meta-Data Protection in File Systems</i> , Proceedings of 200 USENIX Annual Technical Conference, 6/18-23/2000.	
	33	SHASHA, DENNIS, <i>Tuning Time Series Queries in Finance: Case Studies and Recommendations</i> , Data Engineering Journal 22, 2 1999 pp 41-47.	
	34	SIDEBOTHAM, BOB, <i>Volumes: The Andrew File System Data Structuring Primitive</i> , EEUG Conference Proceedings, Manchester, UK, Autumn 1986.	
	35	SUBRAMANIAN, MURALIDHAR, ET AL., <i>Performance Challenges in Object-Relational DBMSs</i> , Data Engineering Journal 22, 2 1999 pp 28-32.	
	36	WEIKUM, GERHARD, ET AL., <i>Towards Self-Tuning Memory Management for Data Servers</i> , Data Engineering Journal 22, 2 1999 pp 3-11.	
	37	WEST, MICHAEL, ET AL. <i>The ITC Distributed File System: Prototype and Experience</i> , Carnegie-Mellon University, Technical Report CMU-ITC-040, March 1985.	
	38	ZAYAS, EDWARD R., <i>AFS-3 Programmer's Reference: Architectural Overview</i> , Transarc Corporation, Pittsburgh, PA, 1.0 edition 1991.	

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